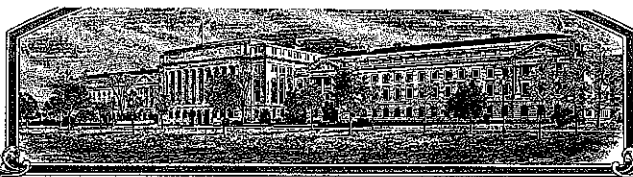


No.

9600341



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

USDA-NRCS Aberdeen Plant Materials Center

Whereas, THERE HAS BEEN PRESENTED TO THE

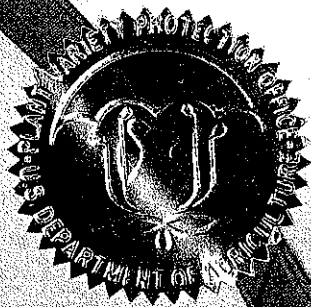
Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THEREOF IS FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. IN THE UNITED STATES SEED OF THIS VARIETY (1) SHALL BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED AND (2) SHALL CONFORM TO THE REQUIREMENTS OF THE PLANT VARIETY PROTECTION ACT. GENERATIONS SPECIFIED BY THE OWNER OF THE RIGHTS. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

WHEATGRASS, THICKSPIKE

'Bannock'



In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D.C. this twenty-third day of March, in the year of our Lord two thousand one.

Attest:

Alvin K. Post

Acting Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

[Signature]

Secretary of Agriculture

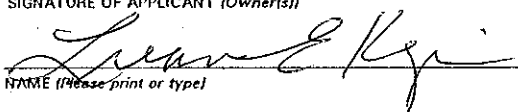
U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE DIVISION - PLANT VARIETY PROTECTION OFFICE

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

(Instructions and information collection burden statement on reverse)

The following statements are made in accordance with the Privacy Act 1974 (5 U.S.C. 552a).

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF APPLICANT(S) (as it is to appear on the Certificate)		2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER	3. VARIETY NAME
USDA-NRCS Aberdeen Plant Materials Center		9021076	Bannock
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country)		5. TELEPHONE (include area code)	FOR OFFICIAL USE ONLY PVPO NUMBER 9600341 DATE Aug. 20, 1996 FILING AND EXAMINATION FEE: \$2450.00 DATE Aug. 20, 1996 CERTIFICATION FEE: \$320.00 DATE 3-6-01
P.O. Box 296 Aberdeen, ID 83210-0296		(208) 397-4133	
6. FAX (include area code)			
(208) 397-4311			
7. GENUS AND SPECIES NAME	B. FAMILY NAME (Botanical)		
Elymus lanceolatus ssp. lanceolatus	Poaceae		
9. CROP KIND NAME (Common name)			
Thickspike Wheatgrass			
10. IF THE APPLICANT NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION (corporation, partnership, association, etc.) (Common name)			
U.S. Government			
11. IF INCORPORATED, GIVE STATE OF INCORPORATION		12. DATE OF INCORPORATION	
13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS			14. TELEPHONE (include area code)
Gary Young USDA-NRCS P.O. Box 296 Aberdeen, ID 83210-0296			(208) 397-4133
			15. FAX (include area code)
			(208) 397-4311
16. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on reverse)			
a. <input checked="" type="checkbox"/> Exhibit A. Origin and Breeding History of the Variety b. <input checked="" type="checkbox"/> Exhibit B. Statement of Distinctness c. <input checked="" type="checkbox"/> Exhibit C. Objective Description of the Variety d. <input type="checkbox"/> Exhibit D. Additional Description of the Variety e. <input checked="" type="checkbox"/> Exhibit E. Statement of the Basis of the Applicant's Ownership f. <input checked="" type="checkbox"/> Voucher Sample (2,500 viable untreated seeds or, for tuber propagated varieties verification that tissue culture will be deposited and maintained in a public repository) g. <input checked="" type="checkbox"/> Filing and Examination Fee (\$2,450), made payable to "Treasurer of the United States" (Mail to PVPO)			
17. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY, AS A CLASS OF CERTIFIED SEED? (See Section 83(a) of the Plant Variety Protection Act?)			
<input checked="" type="checkbox"/> YES (If "yes," answer items 18 and 19 below) <input type="checkbox"/> NO (If "no," go to item 20)			
18. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?		19. IF "YES" TO ITEM 18, WHICH CLASSES OF PRODUCTION BEYOND BREEDER SEED?	
<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		<input checked="" type="checkbox"/> FOUNDATION <input checked="" type="checkbox"/> REGISTERED <input checked="" type="checkbox"/> CERTIFIED	
20. HAS THE VARIETY OR A HYBRID PRODUCED FROM THE VARIETY BEEN RELEASED, USED, OFFERED FOR SALE, OR MARKETED IN THE U.S. OR OTHER COUNTRIES?			
<input checked="" type="checkbox"/> YES (If "yes," give names of countries and dates) <input type="checkbox"/> NO			
U.S. 4/27/95 No Commercial Sale prior to the summer 1997.			
21. The applicant(s) declare that a viable sample of basic seed of the variety will be furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate.			
The undersigned applicant(s) is(are) the owner(s) of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 41, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.			
Applicant(s) is(are) informed that false representation herein can jeopardize protection and result in penalties.			
SIGNATURE OF APPLICANT (Owner(s))		SIGNATURE OF APPLICANT (Owner(s))	
 NAME (Please print or type)		NAME (Please print or type)	
Luana E. Kiger			
CAPACITY OR TITLE	DATE	CAPACITY OR TITLE	DATE
State Conservationist	7/2/96		

A. ORIGIN AND BREEDING HISTORY (REVISED)

'Bannock' (9021076) *Elymus lanceolatus* ssp *lanceolatus* (Scribn. & J. G. Sm.) Gould, originated in approximately 1960, as a composite of six accessions. Since being selected, it has been through two additional poly-cross cycles using spaced plants.

Bannock has been observed to be uniform and stable over five generations since 1989. No variants have been observed.

The six accessions of thickspike wheatgrass which contributed to the 'Bannock' germplasm are; P-1822, P-3751, P-4567, P-4702, P-6291, and P-7803. P-1822 was collected in 1934, east of The Dalles, OR and was received from the Pullman PMC in 1939. P-3751 and P-6291 were collected near Pocatello, ID. P-4567 was collected near Grandales, WA. P-4702 was collected near Quincy, WA. P-7803 was collected near North Dalles, WA. Dates of collection and specific locations are not available, all were collected prior to 1948.

The accession P-1822 was released as Schwendimar by the Pullman Plant Materials Center in 1994.

B. STATEMENT OF DISTINCTNESS for 'Bannock' thickspike wheatgrass.

There are three other varieties of thickspike wheatgrass; Critana, Sodar, and Schwendimar.

Schwendimar is the most similar variety. Bannock differs from Schwendimar by lacking the short awns found on Schwendimar. Bannock is also resistant to the rust which infects Schwendimar, with no rust symptoms being found.

Additional differences are noted in the Objective Description.

U.S. DEPARTMENT OF AGRICULTURE
EXHIBIT C
AGRICULTURAL MARKETING SERVICE
SCIENCE & TECHNOLOGY
PLANT VARIETY PROTECTION OFFICE
BELTSVILLE, MARYLAND 20705

OBJECTIVE DESCRIPTION OF VARIETY
WHEATGRASS

NAME OF APPLICANT(S) USDA-NRCS, Aberdeen Plant Materials Center	FOR OFFICIAL USE ONLY
ADDRESS (Street and No. or R.F.D. No., City, State, and Zip Code) P.O. Box 296 Aberdeen, ID 83210-0296	PVPO NUMBER 9600341
	VARIETY NAME Bannock
	TEMPORARY OR EXPERIMENTAL DESIGNATION 9021076

PLEASE READ ALL INSTRUCTIONS CAREFULLY: Place the appropriate number that describes the varietal character of this variety in the boxes below. Place a zero in the first box (e.g. or) when number is either 99 or less or 9 or less respectively. Data for quantitative plant characters should be based on a minimum of 25 plants. Comparative data should be determined from varieties entered in the same trial. Royal Horticultural Society or any recognized color standard may be used to determine plant colors; designate system used: Munsell color chart for plant tissues

Please answer all questions for your variety; lack of response may delay progress of your application.

1. SPECIES:

☒ 9

Common
and
Scientific
Name:

- 1 = Fairway Crested Wheatgrass (*Agropyron cristatum*)
- 2 = Standard Crested Wheatgrass (*Agropyron desertorum*)
- 3 = Siberian Wheatgrass (*Agropyron fragile* spp. *sibiricum*)
- 4 = Streambank Wheatgrass (*Elymus lanceolatus* spp. *lanceolatus*)
- 5 = Slender Wheatgrass (*Elymus trachycaulus*)
- 6 = Tall Wheatgrass (*Elytrigia elongata*)
- 7 = Intermediate Pubescent Wheatgrass (*Elytrigia intermedia* spp. *intermedia*)
- 8 = ~~Intermediate Pubescent Wheatgrass (*Elytrigia intermedia* spp. *intermedia*)~~
- 9 = Thickspike Wheatgrass-*Elymus lanceolatus* spp. *lanceolatus*
- 10 = Western Wheatgrass (*Pascopyrum smithii*)
- 11 = Beardless Wheatgrass (*Pseudoroegneria spicata* spp. *inermis*)
- 12 = Bluebunch Wheatgrass (*Pseudoroegneria spicata* spp. *spicata*)
- 13 = Other =

☐

Interspecific
Hybrid:

- 1 = *Agropyron cristatum* x *desertorum* = Crested Wheatgrass
- 2 = *Elytrigia repens* spp. *repens* x *Pseudoroegneria spicata* = RS Wheatgrass
- 3 = *Pseudoroegneria spicata* x *Elymus lanceolatus*

☒ 2

Ploidy
Level:

- 1 = 2n=2x
- 2 = 2n=4x
- 3 = 2n=6x
- 4 = 2n=8x

2. ADAPTATION:

Geographical
Regions:

Northwest and Intermountain regions of United States where annual precipitation is greater than 8 inches.

Land
Resource
Areas:

Dryland sites: A3, A5, B6, B8-13, D21-22, D25, D28a, E43-51
Irrigated sites: all A, B, D and E regions

☒ 3

USDA
Plant Hardiness
Zones:

- | | | | |
|-------|-------|-------|---------|
| 1 = 1 | 4 = 4 | 7 = 7 | 10 = 10 |
| 2 = 2 | 5 = 5 | 8 = 8 | 11 = 11 |
| 3 = 3 | 6 = 6 | 9 = 9 | |

3. MATURITY:

4

Relative
Maturity:1 = Very Early
2 = Early3 = Medium Early
4 = Medium
5 = Medium Late6 = Late
7 = Very Late

2 0

Days to Anthesis:

7

Number of Days Earlier.

Name of Check Variety: Bannock

Same Number of Days.

Name of Check Variety: _____

7

Number of Days Later.

Name of Check Variety: Schwendimar, Critana

4. PLANT:

1 0 0

Plant Height in Centimeters (cm):

2 0

Number of cm. Shorter.

Name of Check Variety: Critana

Same Height.

Name of Check Variety: Schwendimar

Number of cm. Taller.

Name of Check Variety: _____

1

Growth Habit:

1 = Erect

2 = Semierect

3 = Prostrate

1

Rhizomes:

1 = Present

2 = Absent

1

Culm Pubescence:

1 = Glabrous

2 = Pubescent

3 = Partial

4 = Variable

3

Culm Glaucosity:

1 = Glaucous

2 = Non-glaucous

3 = Variable

5. LEAF:

4

Leaf Color:

1 = Blue-green

3 = Dark Green

5 = Light Green

7 = Slate-green

2 = Grey-green

4 = Green

6 = Yellow-green

8 = Other: _____

Leaf Color Reference Number: 7.5GY5/4 to 7.5GY6/2

2

Leaf Pubescence:

1 = Glabrous

2 = Pubescent

3 = Partial

4 = Variable

2

Leaf Glaucosity:

1 = Glaucous

2 = Non-glaucous

3 = Variable

1

Leaf Margin:

1 = Smooth

2 = Toothed

2 0

Leaf Length in centimeters.

5

Number of cm. Shorter.

Name of Check Variety: Critana

Same Length.

Name of Check Variety: Schwendimar

Number of cm. Longer.

Name of Check Variety: _____

0 5

Leaf Width in millimeters.

2

Number of mm. Narrower.

Name of Check Variety: Critana

Same Width.

Name of Check Variety: Schwendimar

Number of mm. Wider.

Name of Check Variety: _____

2

Sheath Auricles:

1 = Present

2 = Absent

1

Sheath Margins:

1 = Smooth

2 = Toothed

1

Sheath Ligule:

1 = Present

2 = Absent

6. SPIKE: (Please note the decimal point)

Spike Shape: 1 = Oblong 2 = Tapering 3 = Clavate 4 = Elliptical

Spike Orientation: 1 = Erect 2 = Semierect 3 = Drooping

Anther Color: 1 = Yellow 2 = Red 3 = White 4 = Green 5 = Purple 6 = Other = _____

Glume Color: 1 = Green 2 = Grey-Green 3 = Yellow 4 = Tan 5 = Tawny 6 = Buff
7 = Other = Often reddish at maturity

Spike Length in centimeters.

Spike Density: 1 = Lax 2 = Laxidense 3 = Dense

Glume Shape: 1 = Lanceolate 2 = Obovate 3 = Ovate

7. SEED: (Please note the decimal point)

Glume Length in millimeters.

Glume Color: 2.5 GY 7/4

Lemma Length in millimeters.

Glume Awn (descriptors): No awn on

Lemma Width in millimeters.

glume

Lemma Pubescence: 1 = Pubescent 2 = Partial 3 = Glabrous

Lemma Awn Size: 1 = Very Short 3 = Medium Short 6 = Long
2 = Short 4 = Medium 7 = Very Long
5 = Medium Long

Seed Weight in milligrams per 1000 seeds.

8. DISEASE AND PEST RESISTANCE: 1=Susceptible 2=Resistant 3=Tolerant 4=Avoidance 0=Not TestedLeaf Rust: *Uromyces dactylidis*Stem Rust: *Puccinia graminis* ssp. *graminicola*Stripe Rust: *Puccinia striiformis*

Other Disease(s): _____

Black Grass Bug:

Grass Billbug:

Pacific Grass Bug:

Other Insect(s): _____

Nematode(s) (please specify as to species): _____

9. INTENDED USE: Please indicate All that Apply.

2, 3, 4, 6

1 = Hay and Pasture

3 = Conservation Cover

5 = Silage/Green Manure

7. Saline/Alkaline Soil Stabilization

2 = Range Reseeding

4 = Erosion Control

6 = Wildlife Habitat Plantings

8. Other = _____

10. Comments:

C. OBJECTIVE DESCRIPTION OF VARIETY

'BANNOCK' THICKSPIKE WHEATGRASS
ELYMUS LANCEOLATUS SSP *LANCEOLATUS* (Scribn. & J.G. Sm.) Gould

Name of Applicant: USDA - Natural Resources Conservation Service

Temporary Designation: 9021076

Plant Introduction Number: NA

Variety Name: 'Bannock'

1. SPECIES: *Elymus lanceolatus* ssp *lanceolatus* (Scribn. & J.G. Sm.) Gould
 synonyms include *Agropyron dasystachyum* (Hook.) Scribn. & J.G. Sm.
Agropyron dasystachyum var. *riparium* (Scribn. & J.G. Sm.) Bowden
Agropyron elmeri Scribn.

Agropyron lanceolatum Scribn. & J.G. Sm.

Agropyron riparium Scribn. & J.G. Sm.

Elymus lanceolatus var. *riparius* (Scribn. & J.G. Sm.) Dorn

Elytrigia dasystachya (Hook) A. & D. Love

Elytrigia ripara, (Scribn. & J.G. Sm.) Beetle

2. CYTOLOGY: Allotetraploid $2n=28$, containing the S genome (bluebunch) and the H genome (*Hordeum*), of the Triticeae tribe of the Poaceae family.

3. ADAPTATION: USDA- NRCS Major Land Resource Areas; B 6-13, D 21, 23-28, 32-35, E 43, where rainfall exceeds 10 inches. Under irrigation, it will grow in all A, B, D, & E regions.

4. MATURITY: Bannock usually flowers and seed matures from 3 to 7 days later than other thickspikes in southern Idaho.

5. PLANT HEIGHT: Average height of mature culm is 100 cm. Range is 80-140 cm. Culms are approximately 20 cm taller than Critana.

6. GROWTH HABIT: The habit is erect, densely tillered, leaves somewhat lax. Moderate rhizome growth 2-3 dm per year.

7. LEAF BLADE:

Color: 7.5 GY 5/4 to 7.5 GY 6/2 on "Munsell Color Chart for Plant Tissues"

Glaucous: Yes, slightly more than Critana

Glabrous: No

Length: 15 - 25 cm

Width: 4 - 6 mm, 1-2 mm wider than Sodar and 1-2 mm narrower than Schwendimar.

8. SEED HEAD:

Length: 15 - 25 cm

Glumes: 8 -10 mm long, often reddish at maturity.

Awns: None, about half of Schwendimar plants show 3mm awns

UNITED STATES DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE
IDAHO, NEVADA, OREGON, UTAH

and

IDAHO AGRICULTURAL EXPERIMENT STATION
UNIVERSITY OF IDAHO
MOSCOW, IDAHO

NOTICE OF RELEASE OF 'BANNOCK' THICKSPIKE WHEATGRASS.

The United States Department of Agriculture, Natural Resources Conservation Service and the Idaho Agricultural Experiment Station announce the naming and release of 'Bannock' thickspike wheatgrass, *Elymus lanceolatus* ssp. *lanceolatus* (Hook.) Scribn. Synonym *Agropyron dasystachyum*. Official identification of this material was made by Dr Karl Holte, Director, Idaho State University Herbarium, Pocatello, Idaho.

'Bannock' thickspike wheatgrass was developed at the Natural Resources Conservation Service Plant Materials Center, Aberdeen, Idaho through selection and direct increase from field plots. 'Bannock' has been compared with other released cultivars of thickspike wheatgrasses at sites throughout the Intermountain region and at locations in other western states.

Origin 'Bannock' thickspike wheatgrass is a composite of P-1822, P-3751, P-4567, P-4702, P-6291, and P-7803. P-1822 was collected in 1934, east of the Dalles, OR and was received from the Pullman PMC in 1939. P-3751 and P-6291 were collected near Pocatello, ID. P-4567 was collected near Grandales, WA. P-4702 was collected near Quincy, WA. P-7803 was collected near North Dalles, WA. Dates of collection and specific locations are not available, all were collected prior to 1948.

Description: The 'Bannock' cultivar of *Elymus lanceolatus* ssp. *lanceolatus* is a long lived, leafy, cool-season grass. The culms are medium-coarse, soft, erect, and 45 - 60 cm tall, (up to 100 cm irrigated). The leaves, stems, and seed heads have little or no pubescence. The leaves extend 20 - 30 cm up the stems, (45 - 60 cm irrigated). The leaves are abundant, 17 - 25 cm long, 3 - 4 mm wide (4 - 6 mm wide irrigated) and flat with a pale green to bluish cast, (somewhat bluer than 'Critana'). 'Bannock' is rhizomatous, with vigorous sod-producing qualities. Rhizome growth is about 10 cm per year, (up to 25 cm per year irrigated). This rapid rhizome growth does not represent a weed problem as the plants are easily controlled with cultivation or chemicals. Seed heads are 6 - 12 cm long, (15 - 25 cm under irrigated seed production conditions). Spikelets are 10 - 12 mm long, (18 - 20 mm irrigated), with glumes 8 - 10 mm long, often turning reddish at maturity. There are no awns. 'Bannock' forms a protective sod faster than 'Sodar' in the 8 - 10 inch precipitation zone.

Superior Characteristics: Rapid establishment and formation of sod. High forage production and ability to survive and thrive under dry conditions.

Other Characteristics: In seed production fields at the Aberdeen PMC, 'Bannock' has produced 280 - 450 Kg/Ha (250 - 400 lb/ac) for 2 to 3 years, before seed production levels dropped off. This is similar to production levels for other thickspike wheatgrasses.

Proposed Uses: 'Bannock' would be one component of a mix for the following uses;

1. Rangeland seeding on the 8 to 16 inch precipitation zones for erosion control, forage, and cover.
2. Mine spoil reclamation to provide sod formation for soil protection.
3. Critical area stabilization where a sod forming, rhizomatous perennial is needed as in road stabilization and rehabilitation.
4. Filter strips to trap sediment at field edges or across long sloping fields.
5. Competition with aggressive annuals such as cheatgrass and medusahead, in precipitation zones above 8 inches, because of its ability to establish sod.

Area of Adaptation: 'Bannock' is adapted to the Northwest and Intermountain regions where precipitation averages above 8 inches. No upper precipitation limit has been established for 'Bannock'. The area where it may be adapted extends into the northern Great Plains. It prefers moderately deep, loamy soils, but can grow on sandy and clayey soils. Suitable dryland sites will be found in Major Land Resource Areas; A3, A5, B6, B8-B13, D21, D22, D25, D28a, and E43-51. On low precipitation sites, it will have a shorter stature. Under irrigation, it will grow in all A, B, D, and E regions.

Disease Problems: No detrimental disease symptoms have been observed in plantings of 'Bannock'.

Environmental Consideration: This release is from a species native to the intermountain region with three previous releases, made over a 40 year period. This new cultivar represents an incremental improvement in performance within a well documented species. This species is well documented as having beneficial qualities, and no negative impacts on wild or domestic animals. The test plots supporting this release were made in close proximity to natural and induced plant ecosystems. There was no evidence of negative impacts or invasion into these ecosystems. The release of 'Bannock' Thickspike wheatgrass is the result of a data gathering process and is thus exempt from 7 CFR 650.6.

Increase and Distribution: Breeder, Foundation, Registered, and Certified seed classes are recognized. Certification of seed shall be limited to not more than two generations from Foundation seed. Foundation seed will be made available through the Idaho Crop Improvement Association, Utah Crop Improvement Association, and Soil Conservation Districts in Idaho, Utah and Nevada beginning in 1995. Breeder and Foundation seed will be maintained by the Natural Resources Conservation Service, Plant Materials Center, Aberdeen, Idaho.

Protection will be applied for under the Plant Variety Protection Act of 1970. Conditions of this application specify that 'Bannock' seed can be marketed only as a class of certified seed.

Submitted by: This Notice of Release of 'Bannock' Thickspike wheatgrass, was prepared by Gary Young, Manager, Aberdeen Plant Materials Center, and Dan Ogle, Plant Materials Specialist, USDA Natural Resources Conservation Service, Boise Idaho, for joint release by the Natural Resources Conservation Service in Idaho, Nevada, Oregon, and Utah; and the Idaho Agricultural Experiment Station, University of Idaho.

Luana Kiger

Luana Kiger, State Conservationist, Idaho

April 27, 1995

Date

William D. Goddard, Acting

William D. Goddard, State Conservationist, Nevada

4/27/95

Date

Robert J. Graham

Robert J. Graham, State Conservationist, Oregon

4/27/95

Date

Philip J. Nelson

Philip Nelson, State Conservationist, Utah

4-27-95

Date

Marc Saffey (for)

Gary Nordstrom, Head, Ecological Sciences Division

9-28-95

Date

Richard C. Heimsch

Richard Heimsch, Director, Idaho Experiment Station

9/1/95

Date

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

EXHIBIT E
STATEMENT OF THE BASIS OF OWNERSHIP

1. NAME OF APPLICANT(S) USDA-Natural Resources Cons. Service Plant Materials Center	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER 9021076	3. VARIETY NAME Bannock
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country) P.O. Box 296 Aberdeen, ID 83210-0296	5. TELEPHONE (include area code) (208) 397-4133	6. FAX (include area code) (208) 397-3104
	7. PVPO NUMBER 9600341	
8. Does the applicant own all rights to the variety? Mark an "X" in appropriate block. If no, please explain. <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		

9. Is the applicant (individual or company) a U.S. national or U.S. based company? If no, give name of country		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
10. Is the applicant the original owner?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	If no, please answer one of the following:
a. If original rights to variety were owned by individual(s), is (are) the original owner(s) a U.S. national(s)?		
<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO If no, give name of country		
b. If original rights to variety were owned by a company(ies), is(are) the original owner(s) a U.S. based company?		
<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO If no, give name of country		
11. Additional explanation on ownership (if needed, use reverse for extra space):		

PLEASE NOTE:

Plant variety protection can be afforded only to owners (not licensees) who meet one of the following criteria:

1. If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.
2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.
3. If the applicant is an owner who is not the original owner, both the original owner and the applicant must meet one of the above criteria.

The original breeder/owner may be the individual or company who directed final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definition.

According to the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 10 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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STD-470-E (07-97) (Destroy previous editions).

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E. STATEMENT OF THE BASIS OF THE APPLICANT'S OWNERSHIP

The variety for which PVP is being requested was developed by staff of the U.S. Department of Agriculture, Natural Resources Conservation Service. The leaders in this development were Gary Young, Aberdeen PMC Manager; Loren St. John, Aberdeen PMC Assistant Manager; and Dan Ogle, Plant Materials Specialist. As U.S. government employees, these persons retain no ownership rights to this variety. All rights are held by and remain with the U.S. Department of Agriculture, Natural Resources Conservation Service.